



Dr. Kelly Scribner
Center for Toxicology & Env. Health LLC
5120 North Shore Drive
North Little Rock, AR 72118

April 01, 2014

DOH ELAP# 11626
AIHA # 100324

Account# 13913

Login# L314573

Dear Dr. Scribner:

Enclosed are the analytical results for the samples received by our laboratory on April 01, 2014. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Pamela Weaver at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

A handwritten signature in cursive script that reads "Mary G. Unangst".

Mary G. Unangst
Laboratory Director

Enclosure(s)



LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client : Center for Toxicology & Env. Health LLC
Site : NS
Project No. : 106032
Date Sampled : 31-MAR-14
Date Received : 01-APR-14
Date Analyzed : 01-APR-14
Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP023611 Lab ID : L314573-1 Air Volume : 94.3 Liter
Date Sampled : 03/31/14 Date Analyzed : 04/01/14

<u>Parameter</u>	<u>LOQ</u> <u>ug</u>	<u>Total</u> <u>ug</u>	<u>Conc</u>	<u>Units</u>
Mercury	0.030	<0.030	<0.00032	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
Date : 01-APR-14 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	LOQ-Limit of Quantitation

Field sampling was not performed by Galson. Galson presents results based on sampling data provided by clients.



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Date Sampled : 31-MAR-14
Date Received : 01-APR-14
Date Analyzed : 01-APR-14
Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP023612 Lab ID : L314573-2 Air Volume : 88.91 Liter
Date Sampled : 03/31/14 Date Analyzed : 04/01/14

<u>Parameter</u>	<u>LOQ</u> <u>ug</u>	<u>Total</u> <u>ug</u>	<u>Conc</u>	<u>Units</u>
Mercury	0.030	<0.030	<0.00034	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
Date : 01-APR-14 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	LOQ-Limit of Quantitation

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Date Analyzed : 01-APR-14
Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP023613 Lab ID : L314573-3 Air Volume : 86.63 Liter
Date Sampled : 03/31/14 Date Analyzed : 04/01/14

<u>Parameter</u>	<u>LOQ</u> <u>ug</u>	<u>Total</u> <u>ug</u>	<u>Conc</u>	<u>Units</u>
Mercury	0.030	<0.030	<0.00035	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
Date : 01-APR-14 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-14
Date Received : 01-APR-14
Date Analyzed : 01-APR-14
Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP023614 Lab ID : L314573-4 Air Volume : 91.49 Liter
Date Sampled : 03/31/14 Date Analyzed : 04/01/14

<u>Parameter</u>	<u>LOQ</u> <u>ug</u>	<u>Total</u> <u>ug</u>	<u>Conc</u>	<u>Units</u>
Mercury	0.030	<0.030	<0.00033	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
Date : 01-APR-14 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	LOQ-Limit of Quantitation

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Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP023615
Date Sampled : 03/31/14

Lab ID : L314573-5
Date Analyzed : 04/01/14

Air Volume : 93.12 Liter

Parameter	LOQ ug	Total ug	Conc	Units
Mercury	0.030	<0.030	<0.00032	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
Date : 01-APR-14 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms
> -Greater Than ug -Micrograms l -Liters NS -Not Specified
NA -Not Applicable ND -Not Detected ppm -Parts per Million LOQ-Limit of Quantitation

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Date Analyzed : 01-APR-14
Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP023616 Lab ID : L314573-6 Air Volume : 91.49 Liter
Date Sampled : 03/31/14 Date Analyzed : 04/01/14

Parameter	LOQ ug	Total ug	Conc	Units
Mercury	0.030	<0.030	<0.00033	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
Date : 01-APR-14 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	LOQ-Limit of Quantitation

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Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP023617 Lab ID : L314573-7 Air Volume : 87.87 Liter
Date Sampled : 03/31/14 Date Analyzed : 04/01/14

<u>Parameter</u>	<u>LOQ</u> <u>ug</u>	<u>Total</u> <u>ug</u>	<u>Conc</u>	<u>Units</u>
Mercury	0.030	<0.030	<0.00034	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
Date : 01-APR-14 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	LOQ-Limit of Quantitation

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Project No. : 106032
Date Sampled : 31-MAR-14
Date Received : 01-APR-14
Date Analyzed : 01-APR-14
Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP023618 Lab ID : L314573-8 Air Volume : 89.05 Liter
Date Sampled : 03/31/14 Date Analyzed : 04/01/14

<u>Parameter</u>	<u>LOQ</u> <u>ug</u>	<u>Total</u> <u>ug</u>	<u>Conc</u>	<u>Units</u>
Mercury	0.030	<0.030	<0.00034	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
Date : 01-APR-14 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	LOQ-Limit of Quantitation

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Date Analyzed : 01-APR-14
Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP023619
Date Sampled : 03/31/14

Lab ID : L314573-9
Date Analyzed : 04/01/14

Air Volume : 88.94 Liter

Parameter	LOQ ug	Total ug	Conc	Units
Mercury	0.030	<0.030	<0.00034	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
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Date : 01-APR-14 NYS DOH # : 11626
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NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	LOQ-Limit of Quantitation

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Date Received : 01-APR-14
Date Analyzed : 01-APR-14
Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP020818
Date Sampled : 03/31/14

Lab ID : L314573-10
Date Analyzed : 04/01/14

Air Volume : NA

Parameter	LOQ ug	Total ug	Conc	Units
Mercury	0.030	<0.030	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
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QC by: Tony D'Amico

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms
> -Greater Than ug -Micrograms l -Liters NS -Not Specified
NA -Not Applicable ND -Not Detected ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-14
Date Received : 01-APR-14
Date Analyzed : 01-APR-14
Report ID : 824554

Account No.: 13913
Login No. : L314573

Client ID : SMP020817
Date Sampled : 03/31/14

Lab ID : L314573-11
Date Analyzed : 04/01/14

Air Volume : NA

Parameter	LOQ ug	Total ug	Conc	Units
Mercury	0.030	<0.030	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media : 226-17-1A

Submitted by: PWL
Approved by : keg
Date : 01-APR-14 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms
> -Greater Than ug -Micrograms l -Liters NS -Not Specified
NA -Not Applicable ND -Not Detected ppm -Parts per Million LOQ-Limit of Quantitation

Field sampling was not performed by Galson. Galson presents results based on sampling data provided by clients.



LABORATORY FOOTNOTE REPORT

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Client Name : Center for Toxicology & Env. Health LLC
Site :
Project No. : 106032
Date Sampled : 31-MAR-14
Date Received: 01-APR-14
Date Analyzed: 01-APR-14
Account No.: 13913
Login No. : L314573

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L314573 (Report ID: 824554):

Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.

SOPs: MT-SOP-20(4), MT-SOP-8(8)

Blank Spike Recovery limits: 80-120%

Blank Spike Percent Relative Difference (RPD) limits: +/-20%

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Mercury	+/-13.3%	100%

Parameter	Method	PEL
Mercury	mod. NIOSH 6009; CVAA TUBE	0.1 mg/m3

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms
> -Greater Than ug -Micrograms l -Liters NS -Not Specified
NA -Not Applicable ND -Not Detected ppm -Parts per Million

ICB/CCB RECOVERIES

UNITS: ppb

CLIENT: CTEHLOGIN: L314573

	LOQ	FOUND VALUE	FOUND VALUE	FOUND VALUE			
Hg	0.2	<0.2	<0.2	<0.2			
4/1/2014		11:43	12:05	12:18			

INITIAL/CONTINUING CALIBRATION REPORT

Client : Center for Toxicology & Env. Health LLC
Account No: 13913
Login No. : L314573

Lab Sample ID Type Spike Lot # Instrument Analysis Date	Limits (%)	R346791-1 ICV HGCCV HGI Apr 01, 2014 11:40								
		True Value (ppb)	Found (ppb)	Recovery (%)	True Value 0	Found 0	Recovery (%)	True Value 0	Found 0	Recovery (%)
Mercury	90.0 to 110.	0.00300 3.0 KEG 4/1/14	3.02	101.						

INITIAL/CONTINUING CALIBRATION REPORT

Client : Center for Toxicology & Env. Health LLC
Account No: 13913
Login No. : L314573

Lab Sample ID Type Spike Lot # Instrument Analysis Date	Limits (%)	R346791-4 CCV HGCCV HGI Apr 01, 2014 12:03			R346791-6 CCV HGCCV HGI Apr 01, 2014 12:17					
		True Value (ppb)	Found (ppb)	Recovery (%)	True Value (ppb)	Found (ppb)	Recovery (%)	True Value (ppb)	Found (ppb)	Recovery (%)
Mercury	90.0 to 110.0	0.00300 3.0	2.85	95.0	0.00300 3.0	2.86	95.2			
					KEG 4/1/14					

DETECTION LIMIT STANDARD RECOVERY REPORT

Client : Center for Toxicology & Env. Health LLC
Account No: 13913
Login No. : L314573

Lab Sample ID Type Spike Lot # Instrument Analysis Date	Limits (%)	R346791-3 DLS DLS HGI Apr 01, 2014 11:45								
		True Value (ppb)	Found (ppb)	Recovery (%)	True Value 0	Found 0	Recovery (%)	True Value 0	Found 0	Recovery (%)
Mercury	80.0 to 120.	0.200	0.211	105.						

GALSON LABORATORIES

METALS Q.C. SUMMARY

LAB ID NO: L314573-1 to 11
 DUP SAMPLE ID: WG279836-1 to 3
 UNITS: ug

DATE RECEIVED: 01-Apr-14
 MATRIX: tubes

ANALYTE	METHOD BLANK RESULT	SPIKE ADDED	BLANK SPIKE RESULT	% REC	SPIKE ADDED	BLANK SPIKE RESULT	% REC	BLANK SPIKE RPD
Hg	<0.030	0.10	0.11	105.6	0.10	0.092	92.5	13.28

EXAMPLE CALCULATION:

L314573-1

$UG/L \times L = \text{Total ug/volume samples (L)} = \text{mg/M3}$

$<0.3\text{ug/L} \times 0.1\text{L} = <0.030 \text{ Total Ug/ NA (L)} = <0.030 \text{ ug}$

Center for Toxicology and Environmental Health L.L.C.
SAMPLE CHAIN OF CUSTODY AND ANALYSIS REQUEST FORM

	Send Report To:	Send Invoice To:
Name		Michelle Price
Company	CTEH	CTEH
Address	5120 North Shore Dr. North Little Rock, AR 72118	5120 North Shore Dr. North Little Rock, AR 72118
Phone	(501)801-8500	(501)801-8500
Fax	(501)801-8501	(501)801-8501
e-mail	labresults@cteh.com Kscribnar@cteh.com	mprice@cteh.com

Complete Data Packet Requested ☐ Yes ☐ No

[illegible][illegible]

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	COMMENTS
JJ C8	03/31/14 1732	Fedex	03/31/14 1732	Rec'd intact & all accounted for? Yes or No <u>SK</u>
				Rec'd w/custody seals intact? Yes or No <u>NA</u>
				Rec'd in light sensitive packaging? Yes or No <u>NA</u>
		m. Krause	SK 4/1/14 0735	Rec'd with ice pack? Yes or No <u>SK</u>
				Rec'd temperature compliant? Yes or No <u>SK</u>